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Serial No. 10/573,078
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AMENDMENTS TO THE CLAIMS:

The following listing of claims supersedes all prior versions and listings of claims in this application:

1. (Currently Amended) An apparatus ~~for adapting~~ comprising:

a computer system configured to automatically adapt web page content for display on an intended display device, said computer system including an ~~comprising~~ adaptation ~~means for splitting~~ module configured to split the content into a plurality of smaller web pages for display on said device, the adaptation ~~means~~ module being arranged configured in use to:

(i) split the content into a plurality of content portions, and to iteratively repeat the following steps (ii) to (vi) (v) for at least one of the content portions:

(ii) analyse analyze the content to determine whether the size of the content portion is suitable for display on said device;

(iii) if the size of the content portion is not suitable for display on said device, then apply at least one content transformation to the content portion;

(iv) analyse analyze the transformed content to determine whether the size of the transformed content portion is suitable for display on said device; and

(vi) (v) if the size of the transformed content portion is not suitable for display on said device, then split the content portion into a plurality of further content portions,

wherein if the size of the transformed content portion is suitable for display on said device, then the adaptation module is configured to combine said transformed content portion with a further content portion split from the same parent content portion to form a combined content portion.

2. (Currently Amended) Apparatus according to claim 1, wherein ~~analysis~~ steps (ii) and (iv) are performed by said adaptation module to determine whether the size is suitable comprise determining whether the content is small enough for display on said device.

3. (Cancelled)

4. (Currently Amended) Apparatus according to claim [[3]] 1, wherein the adaptation ~~means~~ module is further arranged configured in use to:

~~analyse the~~ analyze said combined content to determine whether the size of the combined content portion is suitable for display on said device, and if the size of the combined content portion is too large for said device, then apply at least one content transformation to the combined content portion.

Simon D. SCOTT, *et al.*
Serial No. 10/573,078
June 23, 2009

5. (Currently Amended) Apparatus according to claim 4, wherein:

the adaptation ~~means comprising~~ module comprises a store for content portions, and ~~wherein~~

said ~~step of combining of~~ two content portions comprises selecting the further content portion from the store,

the adaptation ~~means~~ module being further arranged configured to:

~~analyse~~ analyze the content to determine whether the size of the transformed combined content portion is suitable for display on said device, and

if the size of the transformed combined content portion is too large for said device, then break up said combined content portion so as to return the further content portion back into said store.

6. (Currently Amended) Apparatus according to claim 5, wherein the adaptation ~~means~~ module is further arranged configured to:

if the size of the transformed combined content portion is small enough for display on said device, then combine it with a second content portion split from the same parent content portion.

7. (Currently Amended) Apparatus according to claim 1, further comprising an analysis ~~means~~ arranged module configured in use to translate the web page content

Simon D. SCOTT, *et al.*
Serial No. 10/573,078
June 23, 2009

into a hierarchical tree format comprising a plurality of nodes labelled so as to represent suitable locations for splitting the content into smaller web pages.

8. (Currently Amended) Apparatus according to claim 1, wherein:
the adaptation ~~means~~ module further comprises a store for content portions, and
wherein

said steps of splitting of content to form smaller content portions comprise
comprises adding a plurality of content portions into the store.

9. (Currently Amended) Apparatus according to claim 1, wherein the adaptation
~~means~~ module comprises:

a transformations store for storing a record of transformations which have been
applied to content together with an indication of the type of content to which those
transformations have been applied [[to]].

10. (Currently Amended) Apparatus according to claim 9, wherein the
adaptation module is further configured to step of combining the content portions further
comprises:

applying apply content transformations according to the record of transformations to the further content portion so as to consistently apply transformations to the same type of content as indicated in the record of transformations.

11. (Currently Amended) An automated computer-implemented method for adapting web page content for display on an intended display device, said method comprising:

splitting the web page content into a plurality of smaller web pages for display on said an intended device by performing the following automated steps:

(i) splitting the content into a plurality of content portions, and iteratively repeating steps (ii) to (vi) (v) for at least one of the content portions:

(ii) analysing analyzing the content to determine whether the size of the content portion is suitable for display on said device;

(iii) if the size of the content portion is not suitable for display on said device, then applying at least one content transformation to the content portion;

(iv) analysing analyzing the transformed content to determine whether the size of the transformed content portion is suitable for display on said device; and

(vi) (v) if the size of the transformed content portion is not suitable for display on said device, then splitting the content portion into a plurality of further content portions,

wherein if the size of the transformed content portion is suitable for display on said device, then combining said transformed content portion with a further content portion split from the same parent content portion to form a combined content portion.

12. (Original) A method according to claim 11, wherein ~~analysis~~ steps (ii) and (iv) are performed by said adaptation module to determine whether the size is suitable comprise determining whether the content is small enough for display on said device.

13. (Cancelled)

14. (Currently Amended) A method according to claim [[13]] 11, further comprising ~~the steps of~~:

analysing analyzing the content to determine whether the size of the combined content portion is suitable for display on said device, and

if the size of the combined content portion is too large for said device, then applying at least one content transformation to the combined content portion.

15. (Currently Amended) A method according to claim 14, wherein said ~~step of~~ combining of two content portions comprises selecting the further content portion from a store, and further comprising ~~the steps of~~:

Simon D. SCOTT, *et al.*
Serial No. 10/573,078
June 23, 2009

~~analysing~~ analyzing the content to determine whether the size of the transformed combined content portion is suitable for display on said device, and if the size of the transformed combined content portion is too large for said device, then breaking up said combined content portion and returning the further content portion back into said store.

16. (Currently Amended) A method according to claim 15, further comprising ~~the step of~~:

if the size of the transformed combined content portion is small enough for display on said device, then combining it with a second content portion.

17. (Currently Amended) A method according to claim 11, further comprising ~~the step of~~:

translating the web page content into a hierarchical tree format comprising a plurality of nodes labelled so as to represent suitable locations for splitting the content into smaller web pages.

18. (Currently Amended) A method according to claim 11, wherein said ~~steps of~~ splitting content to form smaller content portions comprises adding a plurality of content portions into a store.

19. (Currently Amended) A method according to claim 11, further comprising:
maintaining a record of transformations which have been applied to content
together with an indication of the type of content to which those transformations have
been applied [[to]].

20. (Currently Amended) A method according to claim 17 19, wherein the
step of combining of the content portions further comprises:

applying content transformations according to the record of transformations to
the further content portion so as to consistently apply transformations to the same type
of content as indicated in the record of transformations.

21. (Currently Amended) An automated computer-implemented apparatus for
adapting configured to adapt web page content for display on a device whose display is
sufficiently smaller than the originally intended display size of the web page for the
content of the web page to require splitting over a plurality of pages on the display of the
device, the apparatus comprising:

~~means arranged~~ a computer-implemented module configured to automatically
integrate the process of splitting the content with applying transformations by recursively
splitting the content into smaller and smaller portions ~~whilst~~ while simultaneously

Simon D. SCOTT, et al.
Serial No. 10/573,078
June 23, 2009

applying ~~various different~~ transformations so as to ~~minimise minimize~~ the amount of white space visible on the smaller pages.

22. (Currently Amended) An apparatus as claimed in claim 21, further comprising:

means ~~arranged to track for tracking~~ the transformations which have been applied to each smaller portion, ~~wherein the apparatus further comprises and~~
means ~~arranged to ensure for ensuring~~ consistency by applying the same transformations to any similar portions of the web-page content.

23. (Currently Amended) An automated computer-implemented method for adapting web page content for display on a device whose display is sufficiently smaller than the originally intended display size of the web page for the content of the web page to require splitting over a plurality of pages on the display of the device, the method comprising using a computer system to the steps of:

recursively splitting split the content of the web-page into a plurality of smaller portions of a first predetermined size;

applying apply a transformation to said plurality of smaller portions, wherein ~~the step of~~ splitting the content is integrated with ~~the step of~~ applying transformations by recursively splitting the content into smaller and smaller portions whilst while

Simon D. SCOTT, *et al.*
Serial No. 10/573,078
June 23, 2009

simultaneously applying various different transformations so as to ~~minimise the~~
minimize an amount of white space visible on the smaller pages.

24. (Currently Amended) A method as claimed in claim 23, further comprising
~~the steps of:~~

tracking each transformation applied to each portion, [[and]]
storing information on all the transformations applied to each portion, and
applying the same transformations to any similar portions of the web-page
content.

25. (Currently Amended) A computer-readable medium containing a computer
program or suite of programs ~~so arranged such that~~ which, when executed by a
computer system, cause ~~it/they cause/s~~ the system to perform the method of claim 11.

26-27. (Cancelled)